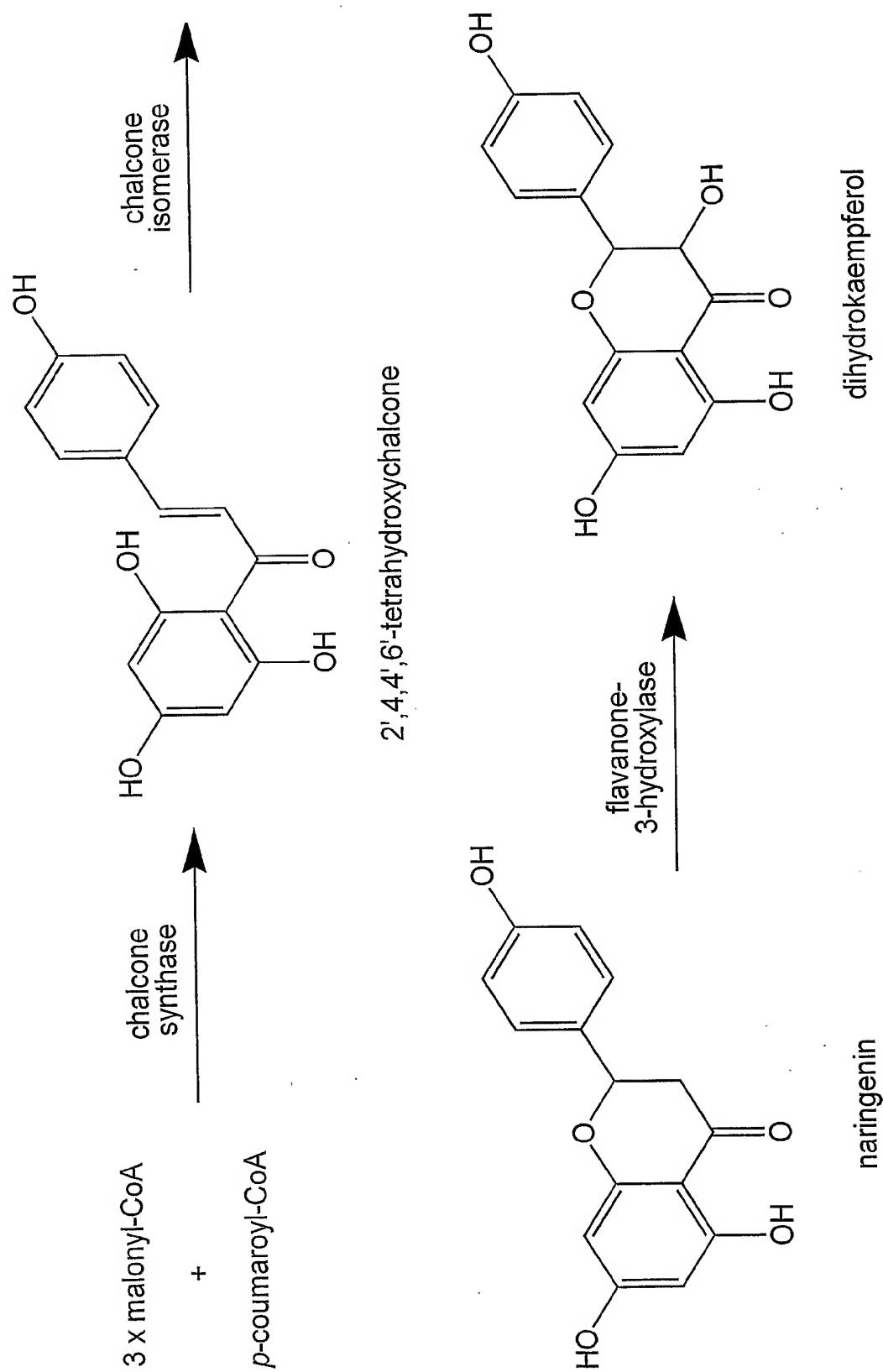


Figure 1A



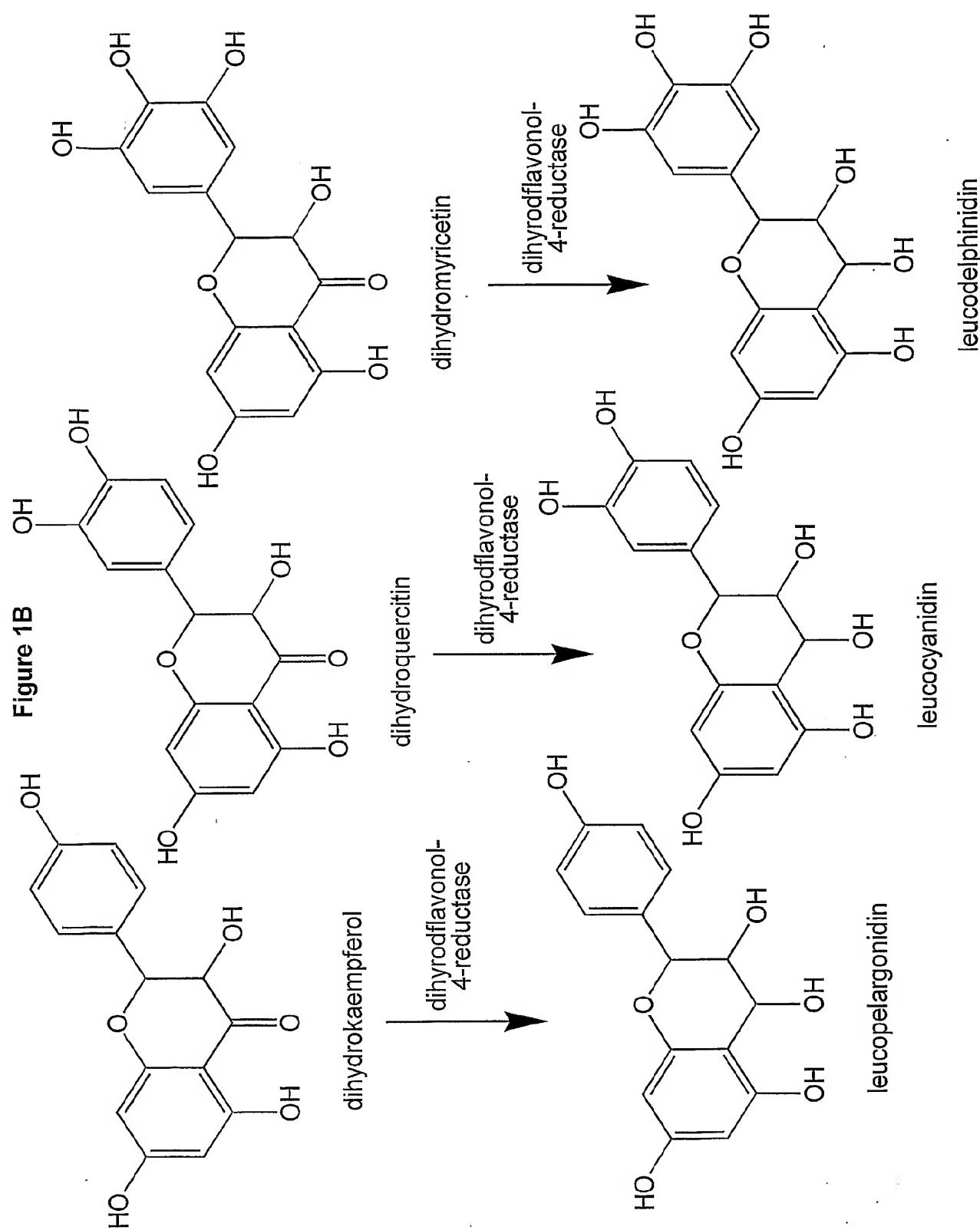


Figure 2A

| | | |
|---------------|--|-----|
| SEQ ID NO: 4 | MGSK-----SETVCVTGASGYIGSWLVMRLLIERGYTVRATVLDADMREVKHLIDLPGAE | 55 |
| SEQ ID NO: 6 | MGSK-----SETVCVTGASGYIGSWLVMRLLIERGYTVRATVLDADMREVKHLIDLPGAE | 55 |
| SEQ ID NO: 8 | L----- | 1 |
| SEQ ID NO: 17 | MGSA-----SESVCVTGTGASGEFIGSWLVMRLLIERGYTVRATVLDPVNMKKVKHLVELPGAK | 55 |
| SEQ ID NO: 18 | MDQQLTHGSKKACVIGGGTGNIASILIKHILLQSGYKVNTIVRDPENEKKIAHRLQEL- | 59 |
| | | |
| SEQ ID NO: 4 | SKLSLWKAELTEEGSFDEAIKGCTGVEHILATPVDFKSKDOPENEMIKETIQQGVLNIMKACL | 115 |
| SEQ ID NO: 6 | SKLSLWKAELTEEGSFDEAIKGCTGVEHILATPVDFKSKDOPENEMIKETIQQGVLNIMKACL | 115 |
| SEQ ID NO: 8 | -----VFOQATPVNFASEDPENDMIKEAITGVLNVLKACV | 36 |
| SEQ ID NO: 17 | SKLSLWKAELAEEGSFDEAIKGCTGVEHVATPMDFESKDOPENEVIKETINGVLDIMKACL | 115 |
| SEQ ID NO: 18 | GDIKIEFKADITDEDSFESSFGCEYIFHVATPINFKSEDPEKDMIKPAIQGVINVLSCL | 119 |
| | | |
| SEQ ID NO: 4 | KAKTVRRLVFTSSAGTTNITEHQKP--IIDETCWTDVEFCRRLNMTGWMYFVSKTLAEEKE | 173 |
| SEQ ID NO: 6 | KAKTVRRLVFTSSAGTTNITEHQKP--IIDETCWTDVEFCRRLNMTGWMYFVSKTLAEEKE | 173 |
| SEQ ID NO: 8 | RAKGVKRVILTSSAAAVTINQIKGTDLVMDESNWTDVEYLSTAKPPTWGPASKKLAEEKA | 96 |
| SEQ ID NO: 17 | KAKTVRRLVFTSSAGTINVERQKP--VFDDTCWSDVEFCRRVKTGWMYFVSKTLAEEKE | 173 |
| SEQ ID NO: 18 | KSKSVKRVIVYTSSAAAVSINNLSGTGLVMNEENWTIDDEFTEEKPFNWGYPIISKVLAEEK | 179 |

Figure 2B

| | | |
|---------------|--|-----|
| SEQ ID NO: 4 | AWKFAKEHGMDFIAILPALVIGPELLPPTMSSVISALSPINGLEAHYSILIKQAA | 227 |
| SEQ ID NO: 6 | AWKFAKEHGMDFIAILPALVIGPELLPPTMSSVISALSPINGLEAHYSILIKQAA | 227 |
| SEQ ID NO: 8 | AWKFAAEENHIDLTVIPTLTTGPSVTTDIPSSVGMMAASLITGNDFLINALKGMQLLSGSI | 156 |
| SEQ ID NO: 17 | AWKFAKEQQLDEITIIPPLVVGPELMPTMPPSLITASPLITGNEDHYSTIJKQGQ | 227 |
| SEQ ID NO: 18 | AWEFAAEENKINLVTVIPALIAGNSLLSDPPSSLSSMSFITGKEMHVTGLKEMQKLGSII | 239 |
| | | |
| SEQ ID NO: 4 | -FVHIEDICLAHIFLFEQPKAEGRYICSAACDVTIHDIVKLINKEYPEYKVPTKFQNIPDQ | 286 |
| SEQ ID NO: 6 | -FVHIEDICLAHIFLFEQPKAEGRYICSAACDVTIHDIVKLINKEYPEYKVPTKFQNIPDQ | 286 |
| SEQ ID NO: 8 | SITHVEDICRAQIFVAEKESSGRYICCAHNTSVPELAKELSKRYPQYKIPTEFDDCPSK | 216 |
| SEQ ID NO: 17 | -FVHLDLCLLAHIFLFEPEVEGRYICSAACDATIHDIAKLINQKYPEYKVPTKEKNIPDQ | 286 |
| SEQ ID NO: 18 | SFVHVDLARAHFLAEEKETASGRYICCAYNTSVEIADFLIQRYPTKYNVLSEEEEGLISI | 299 |
| | | |
| SEQ ID NO: 4 | LEPVRESSKKITDLGQFKYSILEDMYTGAIDTCIEKGLLPKPAE | 337 |
| SEQ ID NO: 6 | LEPVRESSKKITDLGQFKYSILEDMYTGAIDTCIEKGLLPKPAE | 337 |
| SEQ ID NO: 8 | -AKLIISSEKLVKEGFSFKYGIIEIYDQITLEYLKSKGAL--N-- | 255 |
| SEQ ID NO: 17 | LELVRESSKKITDLGFKFKYSILEDMYTGAIDTCRDKGLLPKPAEKGLIFTKPGETPVNAM- | 345 |
| SEQ ID NO: 18 | -PRLTSSQQLINEGFRFEEYGINEMYDQMIIEFFESKGLI--KAK | 340 |

Figure 2C

SEQ ID NO:4 HK
SEQ ID NO:6 HK
SEQ ID NO:8 -N
SEQ ID NO:17 HK
SEQ ID NO:18 ES

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339
339
256
347
342

Figure 3A

| | | |
|---------------|---|-----|
| SEQ ID NO: 12 | M-DGNKGPVVVTGASGFVGSWLIVMKLQQVGYTVRATVRDPANVEKNKPPLLEPGAKERLS | 59 |
| SEQ ID NO: 14 | MANTSKGKVCVGTGASGEVASWLVKRLLESGYHVLTGVRDPGQNQKKVVAHLWNLAGAKEGLE | 60 |
| SEQ ID NO: 16 | M-DGSKGPVVVTGASGFVGSWLIVMKLQQAGYTVRATVRDPANVEKNKPPLLEPGAKERLS | 59 |
| SEQ ID NO: 19 | M-DGNKGPVVVTGASGFVGSWLIVMKLQQAGYTVRATVRDPANVEKTKPPLLEPGAKERLS | 59 |
| SEQ ID NO: 20 | MVISSKGKVCVGTGASGEVASWLVTKRLLEAGYHVIGTVRDPNSREKVSHLWRLPSAKERLQ | 60 |
| | | |
| SEQ ID NO: 12 | IWKADLSEEGSFDDAIAGCTGVFHVATPMDFDSQDP-ENEVIKPTVEGMLSIMRACKEAG | 118 |
| SEQ ID NO: 14 | LVRADLLEEGSFDDAVMACEGVFHTASPLITNADS--KEEMLDSAINGTINLRSCKKNP | 118 |
| SEQ ID NO: 16 | IWKADLSDGEFSFDDAIAGCTGVFHVATPMDFDSKDP-ENEVIKPTVEGMLSIMRACKEAG | 118 |
| SEQ ID NO: 19 | IWKADLSEDGSENEAIAGCTGVFHVATPMDFDSQDP-ENEVIKPTVEGMLSIMRACKEAG | 118 |
| SEQ ID NO: 20 | LVRADLMEEGSFDDAVMACEGVFHTASPVLAKSDSNCKEEMLVPAINGTINLRSCKKNP | 120 |
| | | |
| SEQ ID NO: 12 | TVKRIVETSSAGSVNIE---RQRPAYDQDNWSIDFCRRVKMTGWMYFVSKSLAEKAA | 174 |
| SEQ ID NO: 14 | FLKRVVLTSSSTMRLRDEAEFPNVLLDETSWSVFCESIQI--W-YAVAKILAEKSA | 175 |
| SEQ ID NO: 16 | TVKRIVETSSAGSVNIE---RQRPAYDQDNWSIDFCRRVKMTGWMYFVSKSLAEKAA | 174 |
| SEQ ID NO: 19 | TVKRIVETSSAGSVNIE---RPRPAYDQDNWSIDYCRRVKMTGWMYFVSKALAEKAA | 174 |
| SEQ ID NO: 20 | FLKRVVLTSSSTMRLRDEAEFPNVLLDETSWSVFCESIQI--W-YALAKILAEKAA | 176 |

Figure 3B

| | | | |
|-----|----------|--|-----|
| SEQ | ID NO:12 | MEYASENGLDFISIILPIIPTLIVVGPFLSAGMPPSLVTALALITGNEAHYSILKQVQLVHLDL | 234 |
| SEQ | ID NO:14 | WEEAKENNIDLVAVLPTEIFIGPNLSPVLPGLPTASDVGLGLEKGETEKFTIFGRMGYYVHDDV | 235 |
| SEQ | ID NO:16 | MEYASENGLDFISIILPIIPTLIVVGPFLSAGMPPSLVTALALITGNEAHYSILKQVQLVHLDL | 234 |
| SEQ | ID NO:19 | MEYASENGLDFISIILPIIPTLIVVGPFLSAGMPPSLVTALALITGNEAHYSILKQVQLVHLDL | 234 |
| SEQ | ID NO:20 | WEEAKENNIDLVTVLPSFVIGPSLSHELSVTASDILGLIQQGDTDRFLISYGRMGYYVHDDV | 236 |
| | | + | + |
| | | 190 | 200 |
| | | 210 | 220 |
| | | 230 | 240 |
| | | + | + |
| | | 250 | 260 |
| | | 270 | 280 |
| | | 290 | 300 |
| | | + | + |
| SEQ | ID NO:12 | CDAMTFLFEHPEANGRYICSSHDATIHGLARMILRDRFPEYSIPQKFAGVDDDLQPIHFS | 294 |
| SEQ | ID NO:14 | ASCHILVYETADAKGRYICNSAVLDSNELVALLAKRFPSEPIPKSLENITYGE-QTYGYNT | 294 |
| SEQ | ID NO:16 | CDAMTFLFEHPEANGRYICSSHDATIHGLARMILRDRFPEYSIPHKEAGVDDDLQPIHFS | 294 |
| SEQ | ID NO:19 | CDAMTFLFEHPEANGRYICSSHDATIHGLARMILQDRFPEYDIPQKFAGVDDNLQPIHFS | 294 |
| SEQ | ID NO:20 | ASCHILVYEAPQATGRYLCNSVVLDDNNELVALLAKQFPIRSLRNQPYEK-QSYEINT | 295 |
| | | + | + |
| | | 310 | 320 |
| | | 330 | 340 |
| | | 350 | 360 |
| | | + | + |
| SEQ | ID NO:12 | KKLDHGESFRYTAEDMFDAAIRTCREKGLIPLGDAPPAGGKLGALAAGEGQAIGAET | 354 |
| SEQ | ID NO:14 | SKIRKLGLEFR-GVEEMFDDSVESLKAHGYL-----REGAA | 329 |
| SEQ | ID NO:16 | KKLDHGESFRYTAEDMFDAAIRTCREKGLIPLGDAPPAAAGKLGALAAGKGQAAIGAET | 354 |
| SEQ | ID NO:19 | KKLDHGESFRYTTEDMFDAAIHTCRDKGLIPLGDVPAPAGGKLGALAAGEGQAIGAET | 354 |
| SEQ | ID NO:20 | SKIQQLGFKEK-GVQEMFGDCVESLKDQGHL-----LECPIL | 330 |